

# **Overview of Air Quality**

## **Integrated Energy Policy Report Committee Workshop on Air Quality, Public Health, and Energy**

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# Pollutants of Concern in California



- **Ozone**
  - formed by ROG/NO<sub>x</sub>
- **Particulate Matter (PM)**
  - formed by NO<sub>x</sub>, SO<sub>x</sub>, ROG, ammonia
- **Air Toxics**
  - Diesel particles, Benzene, Chromium,
- **Carbon Monoxide**

# Twenty Years Ago...

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- **Unhealthy levels of lead, NO<sub>2</sub>, SO<sub>2</sub>, carbon monoxide, ozone, particulate matter, and toxics**
- **In the South Coast:**
  - **Over 100 Stage 1 alerts**
  - **49 pphm peak ozone level**

# Today...

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**Lead: Attain**

**NO<sub>2</sub>: Attain**

**SO<sub>2</sub>: Attain**

**CO: All but 2 counties attain**

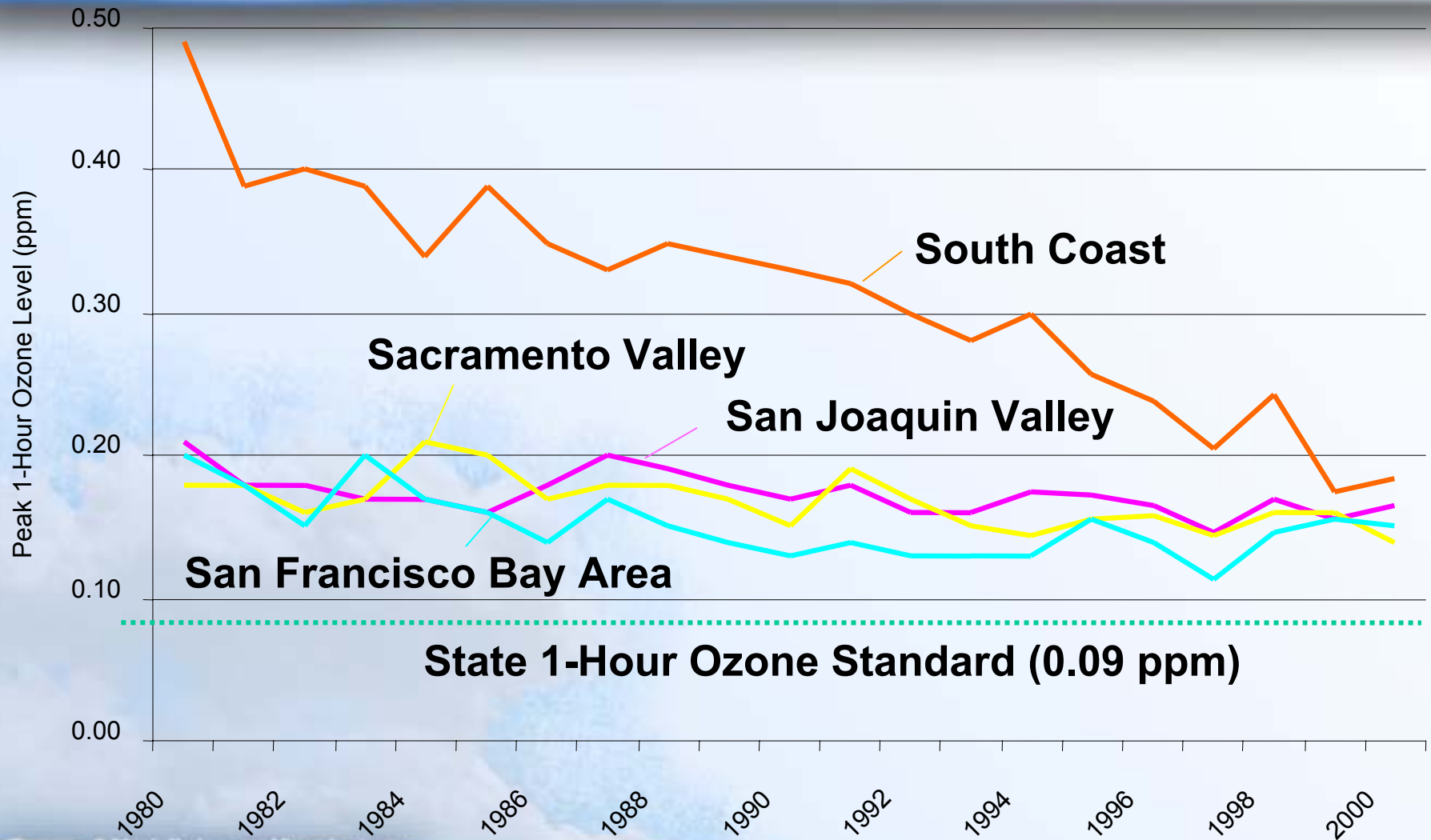
**Ozone: No Stage 1 alerts**

**South Coast peak cut over 50%**

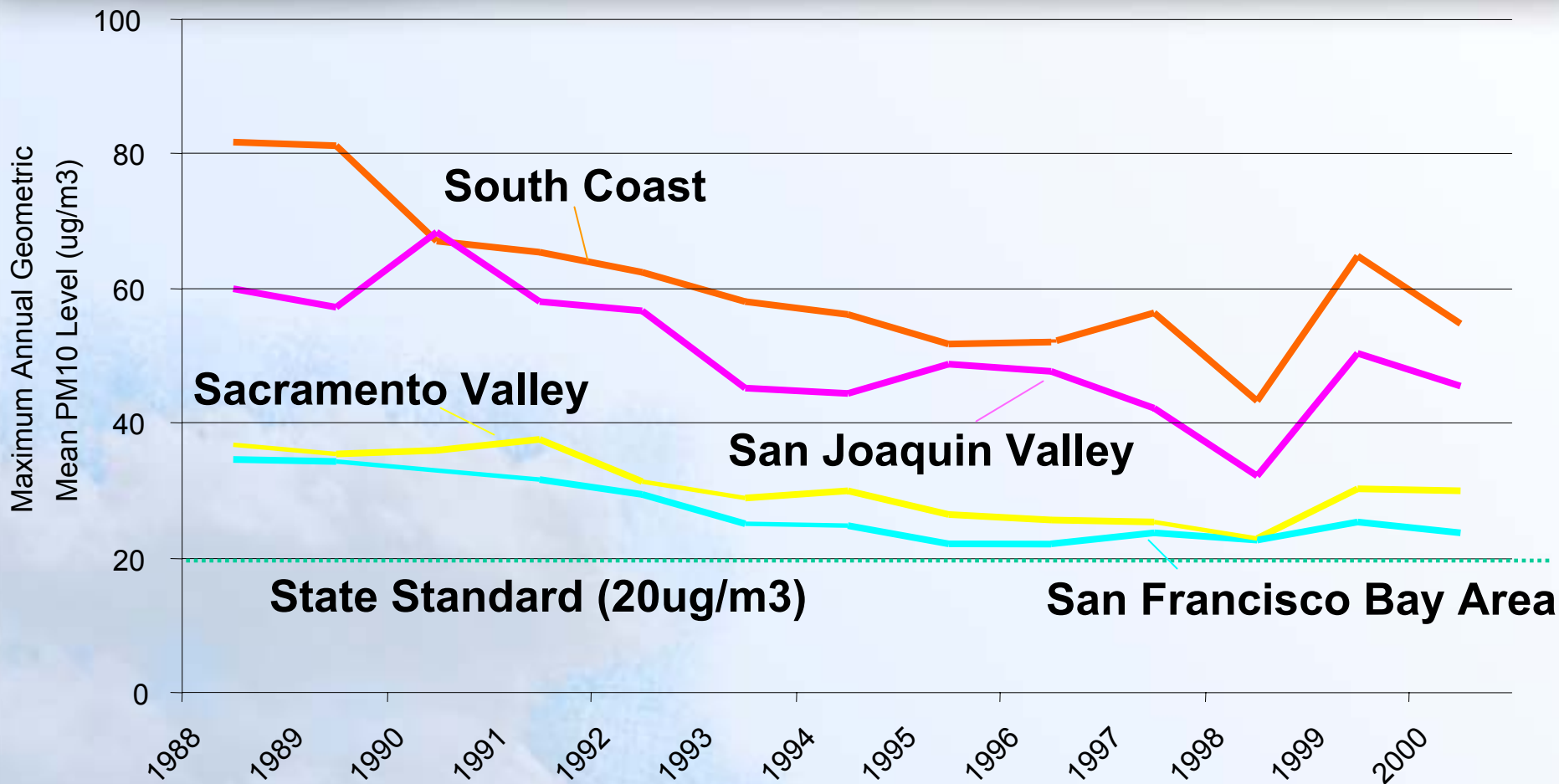
**PM<sub>10</sub>: Annual levels reduced 20+%**

**Toxics: Nearly 50% risk reduction**

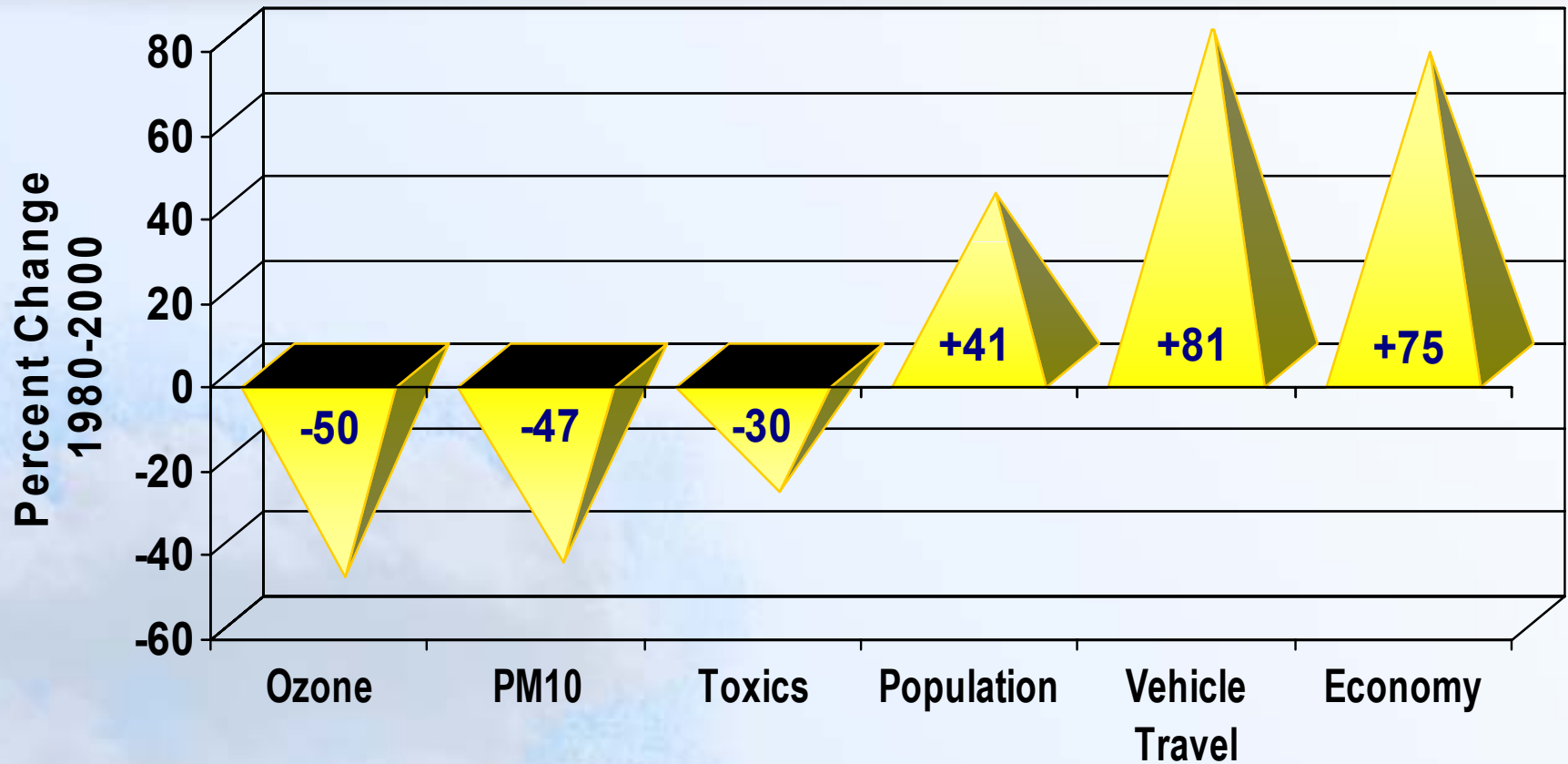
# Peak Ozone Levels in California



# Annual Average PM10 Levels in California



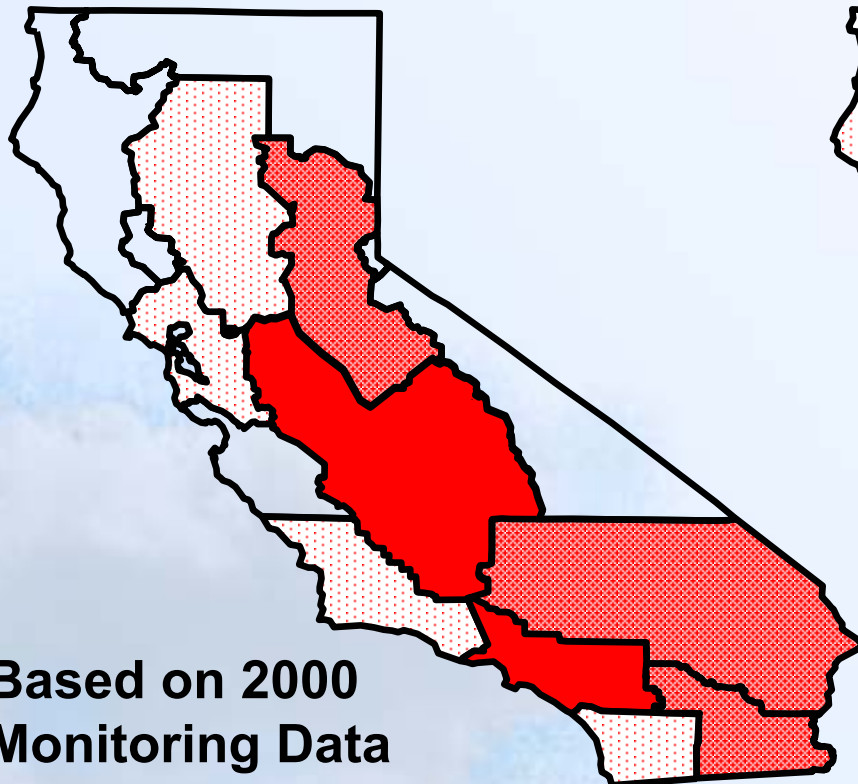
# Air Quality Is Improving...



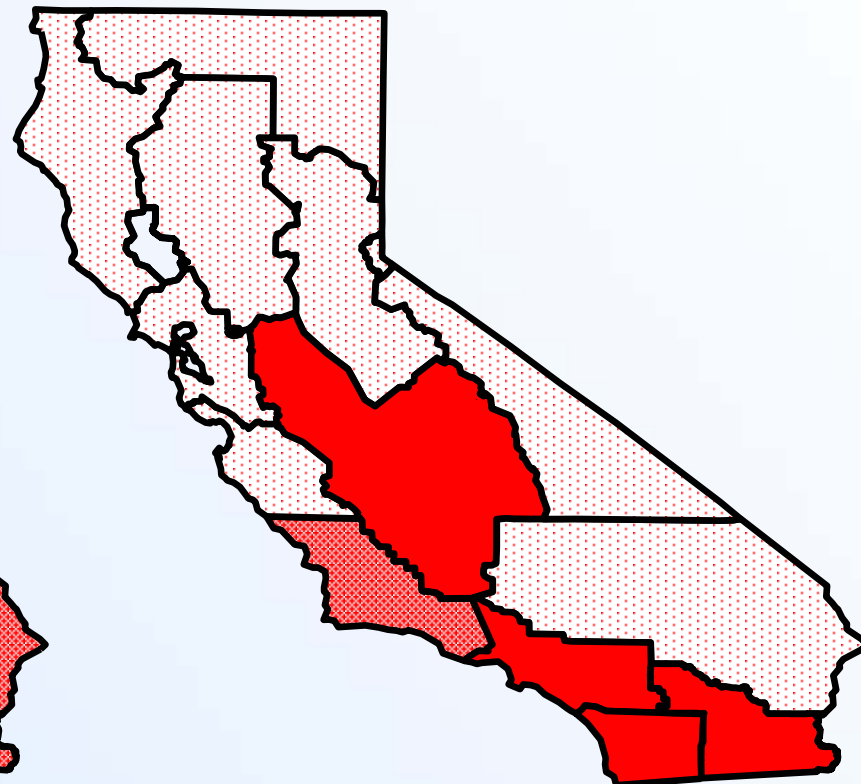


# But..., Over 90% of Californians Still Breathe Unhealthy Air at Times

Days Over State  
Ozone Standard



Days Over State  
PM10 Standard



Based on 2000  
Monitoring Data

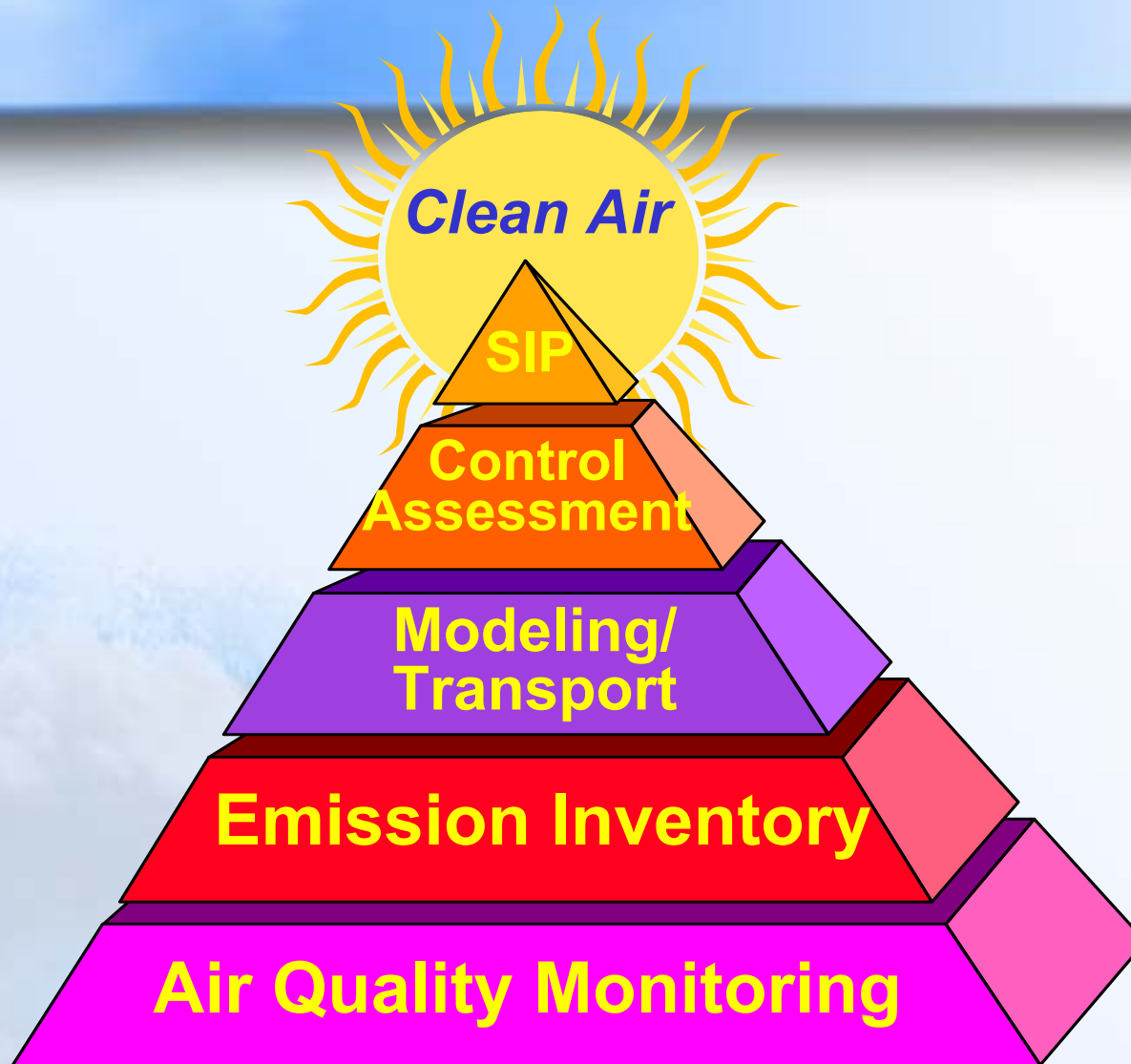
0-5 Days    6-50 Days    50-100 Days    >100 Days



# **Energy-Related Air Quality Activities**

- **Health Effects**
- **Emissions Inventory Programs**
- **ERCs/Guidance on New/Existing Powerplants**
- **Clean Fuels**
- **Global Climate Change**
- **State Implementation Plans**

# Planning for Clean Air



# SIP Activity

- **San Joaquin Valley PM Plan (6/03)**
- **South Coast O<sub>3</sub>/PM10/CO Plan (9/03)**
- **San Joaquin Valley O<sub>3</sub> Plan (Early/03)**
- **Bay Area O<sub>3</sub> Plan (Spring/04)**
- **Broader Sac Area O<sub>3</sub> Plan (Summer/04)**

# Our Goal Is Clean Air Every Day

